

POLLUTION PREVENTION THROUGH PROCESS INTEGRATION

Systematic Design Tools



Mahmoud M. El-Halwagi

Pollution Prevention Through Process Integration Systematic Design Tools

Subhas Sikdar



Pollution Prevention Through Process Integration Systematic Design Tools:

Pollution Prevention through Process Integration Mahmoud M. El-Halwagi, 1997-08-19 The environmental impact of industrial waste is one of the most serious challenges facing the chemical process industries From a focus on end of pipe treatment in the 1970s chemical manufacturers have increasingly implemented pollution prevention policies in which pollutants are mitigated at the source or separated and recovered and then reused or sold This book is the first to present systematic techniques for cost effective pollution prevention altering what has been an art that depends on experience and subjective opinion into a science rooted in fundamental engineering principles and process integration Step by step procedures are presented that are widely applicable to the chemical petrochemical petroleum pharmaceutical food and metals industries Various levels of sophistication ranging from graphical methods to algebraic procedures and mathematical optimization numerous applications and case studies and integrated software for optimizing waste recovery systems make Pollution Prevention through Process Integration Systematic Design Tools a must read for a wide spectrum of practicing engineers environmental scientists plant managers advanced undergraduate and graduate students and researchers in the areas of pollution prevention and process integration Allows the reader to establish pollution prevention targets for a process and then develop implementable cost effective solutions Contains step by step procedures that can be applied to environmental problems in a wide variety of process industries Integrates pollution prevention with other process objectives Author is internationally recognized for pioneering work in developing mass integration science and technology

Process Integration for Resource Conservation Dominic C.Y. Foo, 2016-04-05 To achieve environmental sustainability in industrial plants resource conservation activities such as material recovery have begun incorporating process integration techniques for reusing and recycling water utility gases solvents and solid waste Process Integration for Resource Conservation presents state of the art cost effective techniques

Process Design Tools for the Environment Subhas Sikdar, 2001-05-07 Much of the pollution in the air water or soil results from discharges from industrial activities Industrial practice can be significantly altered to reduce or eliminate the pollution if processes and products are so designed that either toxic materials are not used or processes are inherently less polluting This book is a collection of methods written by experts that would enable industry to design benign processes at the outset to achieve this purpose

Sustainable Design Through Process Integration Mahmoud M. El-Halwagi, 2011-10-03 Whether you are a process engineer an industrial decision maker or a researcher this book provides you with comprehensive and easy to follow coverage of the fundamental concepts and practical techniques on the use of process integration to maximize the efficiency and sustainability of industrial processes

Process Integration for Resource Conservation Dominic C.Y. Foo, 2025-01-31 To achieve environmental sustainability in industrial plants resource conservation activities such as material recovery have begun incorporating process integration techniques for reusing and recycling water utility gases solvents and solid waste Process Integration for Resource Conservation presents

state of the art cost effective techniques including pinch analysis and mathematical optimization for numerous conservation problems The second edition of this best seller adds new chapters on heat integration and retrofitting of resource conservation networks and features multiple optimization examples via downloadable MS Excel spreadsheets Emphasizes the goal of setting performance targets ahead of detailed design following the holistic philosophy of process integration Explains various industrial examples step by step and offers demo software and other materials online Features a wealth of industrial case studies Adds chapters on heat integration combined heat and power heat integrated water network and retrofit of resource conservation network Adds new optimization examples and downloadable MS Excel files on superstructural approaches and automated targeting models for direct reuse recycle and regeneration Ideal for students preparing for real world work as well as industrial practitioners in chemical processing the text provides a systematic guide to the latest process integration techniques for performing material recovery in process plants The book features a solutions manual lecture slides and figure slides for adopting professors to use in their courses

Process Integration Mahmoud M. El-Halwagi, 2006-04-06 With growing global competition the process industries must spare no effort in insuring continuous process improvement in terms of Increasing profitability Conservation of resources and Prevention of pollution The question is how can engineers achieve these goals for a given process with numerous units and streams Until recently conventional approaches to process design and operation put emphasis only on individual units and parts of the process A more powerful integrated approach was lacking The new field of Process Integration looks towards the processing plant as a whole in its attempt to find solutions and improvements Research over the past two decades has resulted in many techniques that allow engineers to better understand complex facilities and significantly enhance their performance This textbook presents a comprehensive and authoritative treatment of the concepts tools and applications of Process Integration Emphasis is given to systematic ways of analyzing process performance Graphical algebraic and mathematical procedures are presented in detail In addition to covering the fundamentals of the subject the book also includes numerous case studies and examples that illustrate how Process Integration is solving actual industrial problems Systematic methodology for analyzing the process as an integrated system identifying global insights of the process and generating optimum strategies and solutions Proper mix of fundamental principles insightful tools and industrial applications Generic techniques that are applicable to a wide variety of processing facilities Packed with case studies practical tools charts tables and performance criteria Extensive bibliography to provide ready access to process integration literature Excellent review of state of the art technology development trends and future research directions

Handbook of Process Integration (PI) Jiří Jaromír Klemeš, 2013-07-31 Since its first development in the 1970s Process Integration PI has become an important methodology in achieving more energy efficient processes This pioneering handbook brings together the leading scientists and researchers currently contributing to PI development pooling their expertise and specialist knowledge to provide readers with a comprehensive and up to date guide

to the latest PI research and applications After an introduction to the principles of PI the book reviews a wide range of process design and integration topics ranging from heat and utility systems to water recycling waste and hydrogen systems The book considers Heat Integration Mass Integration and Extended PI as well as a series of applications and case studies Chapters address not just operating and capital costs but also equipment design and operability issues through to buildings and supply chains With its distinguished editor and international team of expert contributors Handbook of Process Integration PI is a standard reference work for managers and researchers in all energy intensive industries as well as academics with an interest in them including those designing and managing oil refineries petrochemical and power plants as well as paper pulp steel waste food and drink processors This pioneering handbook provides a comprehensive and up to date guide to the latest process integration research and applications Reviews a wide range of process design and integration topics ranging from heat and utility systems to water recycling waste and hydrogen systems Chapters also address equipment design and operability issues through to buildings and supply chains

[Sustainable Process Integration and Intensification](#) Jiří Jaromír Klemeš, Petar Sabev Varbanov, Sharifah Rafidah Wan Alwi, Zainuddin Abdul Manan, Yee Van Fan, Hon Huin Chin, 2018-04-23 In its second edition Sustainable Process Integration and Intensification continues the presentation of fundamentals of key areas of both fields Thoroughly updated and extended to include the latest developments the reader also finds illustrated working sessions for deeper understanding of the taught materials The book is addressed to graduate students as well as professionals to help the effectively application in plant design and operation

Encyclopedia of Sustainable Technologies Martin Abraham, 2017-07-04 Encyclopedia of Sustainable Technologies Eight Volume Set provides an authoritative assessment of the sustainable technologies that are currently available or in development Sustainable technology includes the scientific understanding development and application of a wide range of technologies and processes and their environmental implications Systems and lifecycle analyses of energy systems environmental management agriculture manufacturing and digital technologies provide a comprehensive method for understanding the full sustainability of processes In addition the development of clean processes through green chemistry and engineering techniques are also described The book is the first multi volume reference work to employ both Life Cycle Analysis LCA and Triple Bottom Line TBL approaches to assessing the wide range of technologies available and their impact upon the world Both approaches are long established and widely recognized playing a key role in the organizing principles of this valuable work Provides readers with a one stop guide to the most current research in the field Presents a grounding of the fundamentals of the field of sustainable technologies Written by international leaders in the field offering comprehensive coverage of the field and a consistent high quality scientific standard Includes the Life Cycle Analysis and Triple Bottom Line approaches to help users understand and assess sustainable technologies

[Decontamination of Heavy Metals](#) Jiaping Paul Chen, 2012-12-18 Heavy metals such as lead chromium cadmium zinc copper and nickel are important constituents of most

living organisms as well as many nonliving substances Some heavy metals are essential for growth of biological and microbiological lives yet their presence in excessive quantities is harmful to humans and interferes with many environmental

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Process Integration and Intensification Jirí Jaromír Klemeš,Petar Sabev Varbanov,Sharifah Rafidah Wan Wan Alwi,Zainuddin Abdul Manan,2014-05-26 The authors have provided all the elements required for complete understanding of the basic concepts in heat recovery and water minimization in chemical and related processes and followed these with carefully selected and developed problems and solutions in order to ensure that the concepts delivered can be applied Simon Perry The University of Manchester This graduate textbook covers fundamentals of the key areas of Process Integration and Intensification for intra process heat recovery Heat Integration inter process heat recovery and cogeneration Total Site as well as water conservation Step by step working sessions are illustrated for deeper understanding of the taught materials The textbook also provides a wealth of pointers as well as further information for readers to acquire more extensive materials on the diverse industrial applications and the latest development trends in Process Integration and Intensification It is addressed to graduate students as well as professionals to help the effectively application of Process Integration and Intensification in plant design and operation

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Design for Energy and the Environment Mahmoud M. El-Halwagi,Andreas A. Linninger,2009-06-05 An examination of systematic techniques for the design of sustainable processes and products this book covers reducing energy consumption preventing pollution developing new pathways for biofuels and producing environmentally friendly and high quality products It discusses innovative design approaches and technological pathways that impact ene

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selected chapters **Integrated Planning of Heat Flows in Production Systems** Denis Kurle, 2018-02-10 The book presents an integrated planning concept for heat flows in production systems comprising various short term and long term related models Detailed explanations about the modeling and implementation of all relevant system elements such as generic and specific machines types technical building services TBS production planning and control aspects heat storage units and waste heat designs follow Due to resulting amounts of data the concept foresees system level appropriate indicators and visualizations for a facilitated evaluation of the model results An application procedure embeds and describes all models as well Three exemplary application cases demonstrate the applicability including the manufacturing of shafts for automotive transmissions a cooling water system and an academic learning environment *Energy Optimization in Process Systems* Stanislaw Sieniutycz, Jacek Jezowski, 2009-05-06 Despite the vast research on energy optimization and process integration there has to date been no synthesis linking these together This book fills the gap presenting optimization and integration in energy and process engineering The content is based on the current literature and includes novel approaches developed by the authors Various thermal and chemical systems heat and mass exchangers thermal and water networks energy converters recovery units solar collectors and separators are considered Thermodynamics kinetics and economics are used to formulate and solve problems with constraints on process rates equipment size environmental parameters and costs Comprehensive coverage of dynamic optimization of energy conversion systems and separation units is provided along with suitable computational algorithms for deterministic and stochastic optimization approaches based on nonlinear programming dynamic programming variational calculus Hamilton Jacobi Bellman theory Pontryagin's maximum principles and special methods of process integration Integration of heat energy and process water within a total site is shown to be a significant factor reducing production costs in particular costs of utilities for the chemical industry This integration involves systematic design and optimization of heat exchangers and water networks HEN and WN After presenting basic insight based Pinch Technology systematic optimization based sequential and simultaneous approaches to design HEN and WN are described Special consideration is given to the HEN design problem targeting stage in view of its importance at various levels of system design Selected advanced methods for HEN synthesis and retrofit are presented For WN design a novel approach based on stochastic optimization is described that accounts for both grassroot and revamp design scenarios Presents a unique synthesis of energy optimization and process integration that applies scientific information from thermodynamics kinetics and systems theory Discusses engineering applications including power generation resource upgrading radiation conversion and chemical transformation in static and dynamic systems Clarifies how to identify thermal and chemical constraints and incorporate them into optimization models and solutions

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